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An ISO 9001:2015 Certified Firm

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Member of Indian Geotechnical Society

Geotechnical investigation report

Report No	:	GG/24-25/017
Client Name	:	M/s. Megha Construction
Client Address	:	No.52, Door No.G2, Venkatesan Street, Tambaram West, Chennai – 600 045.
Site Address	:	Plot No.4A, 4B & 6A, T.S.No. 32/1, 32/3 & 32/4, Kannan Nagar 3rd Main Road & Kannan Nagar 2nd Main Road, Thalakananchery Village, Chennai.
Total Land Area	:	642.00 Sq.m
Type of Structure	:	Residential Building
Type of Construction	:	Demolition and reconstruction
Number of Floors	:	Stilt+5

Er.S.ANAND, M.E., M.I.G.S
(Geotechnical Engineer)
CMDA Reg. No: GTE/2021/12/052
No: 46/38, Chelliamman Kovil Street,
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Ref. No: GG/24-25/017

05.09.2024

To

M/s. Megha Construction,

No.52, Door No.G2, Venkatesan Street,
Tambaram West, Chennai – 600 045.

Name of Work: GEOTECHNICAL INVESTIGATION WORK FOR THE DEMOLITION AND RECONSTRUCTION OF RESIDENTIAL BUILDING AT THALAKANANCHERY VILLAGE, CHENNAI.

Sub : Submission of Geotechnical Investigation work Report

Dear Sir,

We are pleased to hereby transmit an original Hard Copy and Soft Copy sent to your concern address, our final Geotechnical Investigation Report for the above mentioned project. If you have any questions, please contact this office.

It has been a pleasure being of service to you on this project. Assuring you of our continued co-operation, we remain.

For Geoglobe Foundations,

(Authorized Signatory)

Er.S.ANAND, M.E., M.I.G.S
(Geotechnical Engineer)
GEOGLOBE FOUNDATIONS
No. 46/38, Chelliamman Kovil Street,
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1. INTRODUCTION

1.1. PURPOSE AND SCOPE

Geo-technical site investigation work for. "DEMOLITION AND RECONSTRUCTION OF RESIDENTIAL BUILDING AT THALAKANANCHERY VILLAGE, CHENNAI" The primary purpose of our investigation is to obtain data to develop foundation design recommendations for the above work. At, first instance, two boreholes were bored at site. Client's representatives choose a no of location and selected the locations of borings. To accomplish these purposes, the following tasks were performed:

1. Detailed soil borings were done up to stratum to explore the sub surface stratigraphy and obtain soil samples for testing.
2. Field and laboratory tests were conducted to evaluate the index and engineering properties of the soils
3. Engineering analysis were performed to develop foundation design information for proposed structure

1.2. SITE ADDRESS:

The site was located at Plot No.4A, 4B & 6A, T.S.No. 32/1, 32/3 & 32/4, Kannan Nagar 3rd Main Road & Kannan Nagar 2nd Main Road, Thalakananchery Village, Chennai.

1.3. THE STRUCTURE

As per the client information the proposed construction is Residential Building for the above mentioned site it comes with Stilt+5 Floors.

2. FIELD INVESTIGATIONS

2.1. ROTARY BORING

Rotary drilling technique was adapted using Calyx machine in this field. In this method, boring is effected by the cutting action of a rotating bit that is kept in firm contact with the bottom of the hole. The bit is attached to the lower end of a hollow drill rod that is rotated by a suitable chuck. Drilling mud (usually Bentonite) is continuously forced down the hollow drill rods. The mud returning upwards though the annular space between the drill rods and the side of the hold bring the cutting to the surface.

2.2. STANDARD PENETRATION TEST

It is now most commonly used in site test. The test measures the penetration resistance of the split spoon sampler, when it is driven into the soil, at the bottom of a borehole in a standard manner. The N-value, which is the number of blow required to achieve 300mm penetration of the soil, indicates the relative density of sand or gravel, the consistency of other soil such as silts or clays and the strength of weak rocks.

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The test is described in IS 2131 - 1981. The split spoon sampler is attached to stiff drill rod and lowered to the bottom of the bore hold. A standard blow consists of dropping a mass of 63.5kg free fall through 750 mm on to an anvil at the top of the rods and ensuing that this amount of dynamic energy is transferred to the sampler as much as possible.

The number of blows required to achieve each 150mm penetration is recorded for a fall penetration of 450mm. The initial 150mm penetration is Referred to as seating drive and the blows required for this penetration are not considered as this zone is in disturbed soil. The next 300mm of penetration is Referred to as the test drive and the number of blows required to achieve this fully is termed the penetration resistance or N-value.

The total number of blows (N) required, to advance the spoon into the bore, for another two successive 15cm (a total of 30 cm) is recorded as a measure of the soil relative density or consistency as given in Table.

CO – RELATION FOR SATURATED SAND/NON – PLASTIC SILT

Relative Density	Penetration Value (Blows/Ft)
Very loose	0 to 4 Blows
Loose	5 to 10 Blows
Medium	11 to 30 Blows
Dense	31 To 50 Blows
Very Dense	> 50 Blows

CO – RELATION FOR SATURATED CLAY/PLASTIC SILT

Relative Density	Penetration Value (Blows/Ft)
Very Soft	0 to 2 Blows
Soft	3 to 4 Blows
Medium Stiff	5 to 8 Blows
Stiff	9 To 16 Blows
Very Stiff	17 To 32 Blows
Hard	> 32 Blows

Rock samples were extracted by Rotary drilling technique using double tube core barrel of 76mm diameter, filter with a diamond bit. The extracted cores for every run, not exceeding 1.0 meter were arranged in the core boxes and the T.C.R as well as R.Q.D values were measured. The appropriate estimation of the properties of the encountered rock strata can be obtained by Referring to the borehole logs and the following description.

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R.Q.D %	ROCK QUALITY
90 – 100	Excellent
75 – 90	Good
50 – 75	Fair
25 – 50	Poor
0 - 25	Very Poor

RECOVERY %	DESCRIPTION OF ROCK
0 – 20	Rock is treated as soil
20 – 35 with SPT > 50 blows / 30 cm	Soft or disintegrated rock
35 – 50	Intermediate rock
50 – 85	Medium rock
> 85	Sound rock

The fieldwork was carried out under the close supervision of our engineer in accordance with Indian Standard mentioned earlier.

2.3. SAMPLING

Soil samples were collected through Split spoon and rock core sample were collected through single tube core barrel.

3. LABORATARY TESTS

The operations to be performed in the laboratory depend upon the type of the nature of data required for the problem at hand. In case of cohesionless material, like sand, the laboratory tests are usually minimum and the design parameters are worked out from field test data such as form SPT- N value, Core resistance and plate load test data.

In the case of cohesive soils, the programme of laboratory testing can vary from carrying out simple tests such as unconfined tests to comprehensive study of soil behaviour using triaxial shear tests and consolidation tests.

Following laboratory tests are conducted.

For Cohesionless soil

a) Specific gravity
b) Sieve analysis
c) Natural moisture content

For Cohesive soil

a) Specific gravity
b) Natural moisture content
c) Atterberg's limits
d) Sieve Analysis

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4. FOUNDATION ANALYSIS

4.1 Soil Profile

The profile of the area as observed in the bore hole is given in the chart. The Borehole is terminated at maximum depth of 5.50 m.

4.2 Safe Bearing Capacity

The bearing capacity of granular soil depends upon the unit weight and angle of internal friction of the soil. These two properties of granular soils are determined by standard penetration tests.

The allowable bearing pressure based on tolerable settlement has been established empirically by Terzaghi and Peck, 1948 and may be expressed by the equation.

Safe bearing capacity = $1.40(N''-3) \times ((B+0.3)/2B)^2 \times W' \times Rd \times s$

Where,

N" = Corrected N value

B = Width of Foundation = constant 1

W' = Water table correction = constant 0.5

Rd = Depth of Foundation = constant 2

s = Tolerable settlement = 25 mm

5. DESIGN CRITERIA

5.1 Design of Foundations

As per the clients information the proposed project is Demolition and reconstruction of Residential Building at Thalakananchery Village, Chennai.

The design of foundation depends upon the founding strata, loading intensity at the foundation level and configuration at loading points.

For the above conditions, open foundation is recommended for the proposed structure shown in the following recommendation.

5.2 Depth of Foundation

Minimum depth of foundations is governed by the following factors:

- Top loose zone.
- Adequate depth of soil above founding level, to ensure mobilization of full safe bearing capacity.
- Adequate depth of soil strata below founding level of requisite strength to mobilize the safe bearing capacity and at the same time restricts the total and differential settlements within the allowable limits.
- The type and depth of foundation shall be decided by the design engineer.

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6. FOUNDATION RECOMMENDATIONS

- The engineering properties of soil and SPT N value are to be considered for the foundation recommendation
- The site for **CONSTRUCTION OF RESIDENTIAL BUILDING AT THALAKANANCHERY VILLAGE, CHENNAI** the borehole investigation was conducted and SBC was determined.
- **Open Foundation**

Maximum Borehole Depth	**5.50 m**
Type of Footing	**Isolated Footing**
Depth of Foundation	**3.00 m From the Ground Level**
Allowable Safe Bearing Capacity	**38.0 tonnes/m^2**
Minimum size of Footing	**1.50 m x 1.50 m**

- We gave general recommendation only, depending upon the structure type and load condition the Design Engineer may choose an alternate foundation based on the safe bearing capacity given in soil test results.

7. PRECAUTIONS

Entire report should be studied before implementing the recommendations. Loose pockets of soil, if encountered shall be removed and backfilled with a levelling course of concrete shall be laid and Demolition and reconstruction of foundations with **IS CODE recommends** can be taken up subsequently.

8. LIMITATIONS

The soil investigations have been carried out at locations in the site chosen by the client so as to represent the entire site. The recommendations provided in this report are hence valid only for these test locations. However, if there is any change in sub soil conditions and properties at places between or beyond chosen test locations, GEOGLOBE FOUNDATIONS may be contacted for further advice.

With passage of time, the recommendations may vary due to manmade and natural environmental changes.

Er. S.ANAND., ME(GEOTECH)
GEOTECHNICAL ENGINEER

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9. REFERENCES

1. IS: 6403-1981
2. IS: 2911-(part1/sec-2 0-1979)
3. IS: 2131-1980
4. IS: 8009 (Part-1) 1976
5. IS: 2720 for all laboratory tests
6. Wayne CTEng(1992)Foundation design,13th reprint, Prentice - Hall of India Pvt.Ltd.,
7. Bowles J.E,(1982) Foundation Analysis and design ,3rd edition, Mc Graw Hill International Book Co.
8. Tomlinson M.J. (1995) Foundation Design and Construction, 6th edition, Longman Group.

ANNEXURE – I

1

Bore Log

Ref.: GG/24-25/017

Name of Project: **GEOTECHNICAL INVESTIGATION WORK FOR THE DEMOLITION AND RECONSTRUCTION OF RESIDENTIAL BUILDING AT THALAKANANCHERY VILLAGE, CHENNAI.**

Soil Investigation done by:	GEOGLOBE FOUNDATIONS, Chennai.	**Type of Drilling:** Rotary – Mud Circulation	**Date of Commencement**	01.09.2024
			Date of Completion	01.09.2024
Bore hole No	01		**Ground Water Level**	Not met
Location	Mentioned on Map			

Depth below G.L.(R.L)	Soil Profile	Visual Description of Soil	Thickness of layer (m)	Depth at which test is conducted	STANDARD PENETRATION TEST DATA – N – Value- Depth of penetration				Relative density / Consistency	Graphical representation of penetration resistance
					15cm	30cm	45cm	For 30cm		20 40 60 80 100
0.75		**FILLED SOIL**	**0.75**							
2.00		**BROWNISH GRAVELLY CALY**	**1.25**	1.50	4	6	13	19	Medium	
3.50		**BROWN SAND**	**1.50**	3.00	20	25	30	55	V Dense	
4.50		**SOFT DISINTEGRATED ROCK**	**1.00**	4.50	R*	-	-	>50	Do	

R* - Rebound

GEOGLOBE FOUNDATIONS ★ CHENNAI ★ 600 017

Bore Log

Ref.: GG/24-25/017

Name of Project: **GEOTECHNICAL INVESTIGATION WORK FOR THE DEMOLITION AND RECONSTRUCTION OF RESIDENTIAL BUILDING AT THALAKANANCHERY VILLAGE, CHENNAI.**

Soil Investigation done by:	GEOGLOBE FOUNDATIONS, Chennai.	**Type of Drilling:** Rotary – Mud Circulation	**Date of Commencement**	01.09.2024
			Date of Completion	01.09.2024
Bore hole No	02		**Ground Water Level**	Not met
Location	Mentioned on Map			

Depth below G.L.(R.L)	Soil Profile	Visual Description of Soil	Thickness of layer (m)	Depth at which test is conducted	STANDARD PENETRATION TEST DATA – N – Value- Depth of penetration: 15cm	30cm	45cm	For 30cm	Relative density / Consistency	Graphical representation of penetration resistance
1.00		**FILLED SOIL**	**1.00**							
2.00		**BROWNISH GRAVELLY CALY**	**1.00**	1.50	4	5	7	12	Medium	
3.50		**BROWN SAND**	**1.50**	3.00	35	40	45	85	V Dense	
4.50		**SOFT DISINTEGRATED ROCK**	**1.00**	4.50	R*	-	-	>50	Do	

Graphical representation of penetration resistance: 20 | 40 | 60 | 80 | 100

R* - Rebound

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Bore Log

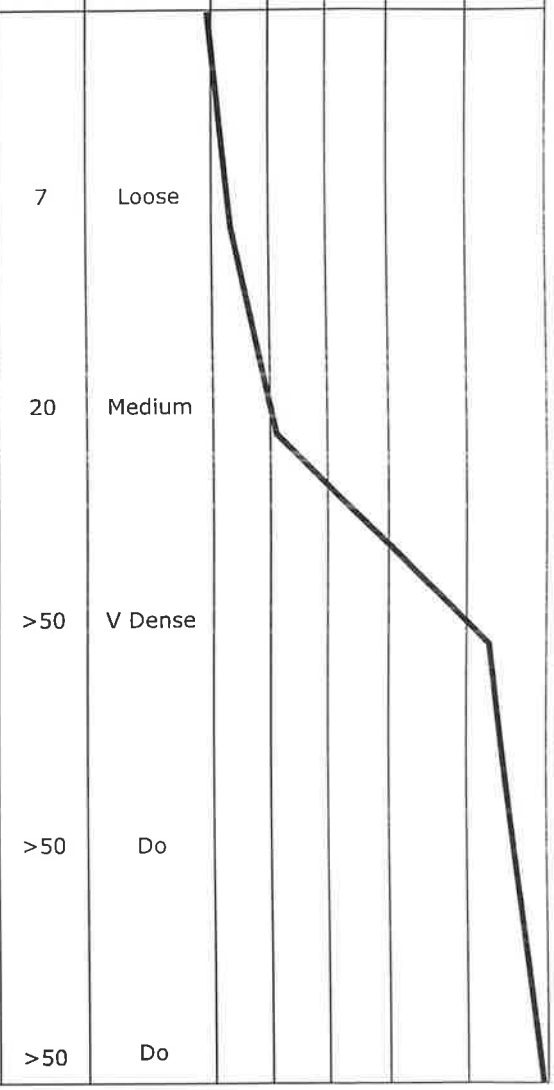
Ref.: GG/24-25/017

Name of Project: **GEOTECHNICAL INVESTIGATION WORK FOR THE DEMOLITION AND RECONSTRUCTION OF RESIDENTIAL BUILDING AT THALAKANANCHERY VILLAGE, CHENNAI.**

Soil Investigation done by:	GEOGLOBE FOUNDATIONS, Chennai.	**Type of Drilling:** Rotary – Mud Circulation	**Date of Commencement**	02.09.2024
			Date of Completion	02.09.2024
Bore hole No	03		**Ground Water Level**	Not met
Location	Mentioned on Map			

Depth below G.L.(R.L)	Soil Profile	Visual Description of Soil	Thickness of layer (m)	Depth at which test is conducted	STANDARD PENETRATION TEST DATA – N – Value- Depth of penetration 15cm	30cm	45cm	For 30cm	Relative density / Consistency
0.50		**FILLED SOIL**	**0.50**						
1.50		**BROWNISH CLAYEY SAND**	**1.00**	1.00	2	3	4	7	Loose
2.50		**BROWNISH GRAVELLY CLAY**	**1.00**	2.00	8	9	11	20	Medium
3.50		**GRAVELLY SAND**	**1.00**	3.00	50/2	-	-	>50	V Dense
5.50		**SOFT DISINTEGRATED ROCK**	**2.00**	4.50	50/5	-	-	>50	Do
				5.50	R*	-	-	>50	Do

Graphical representation of penetration resistance: 20 | 40 | 60 | 80 | 100



R* - Rebound

Er. S.ANAND., M.E.(GEOTECH)
GEOTECHNICAL ENGINEER

GEOGLOBE FOUNDATIONS ★ CHENNAI ★ 600 117

Ref.: GG/24-25/017

SOIL TEST RESULTS

Soil Investigation done by: GEOGLOBE FOUNDATIONS, Chennai.	**BORE HOLE NO:** 01	**LOCATION:** Mentioned on Map	**GROUND WATER LEVEL:** Not met	**WORK STARTED ON**	01.09.2024
				WORK COMPLETED ON	01.09.2024

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS %					SPECIFIC GRAVITY	DEPTH (m)	OBSERVED N VALUE	CORRECTED N VALUE	**SAFE BEARING CAPACITY (t/m^2)**
				LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	GRAVEL	COARSE SAND	MEDIUM SAND	FINE SAND	CLAY & SILT					
	0.00	FS	-	-	-	-	-	-	-	-	-	-				
	0.75												1.50	19	18.0	18.1
		GC	6.5	NP	NP	NP	16	2	22	36	24	2.49				
	2.00												3.00	55	40.9	38.1
		S	12.4	NP	NP	NP	10	49	27	9	5	2.42				
	3.50															
		SDR (WS)	-	-	-	-	-	-	-	-	-	-	4.50	>50	50.0	56.7
	4.50															

FS – FILLED SOIL, GC – GRAVELLY CLAYEY SAND, S – SAND, SDR – SOFT DISINTEGRATED ROCK (WASHING SAMPLE)
SBC is based on SPT Result. **NP – Non Plastic, N/A – Not Applicable*

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Ref.: GG/24-25/017

SOIL TEST RESULTS

Soil Investigation done by: GEOGLOBE FOUNDATIONS, Chennai.	**BORE HOLE NO:** 02	**LOCATION:** Mentioned on Map	**GROUND WATER LEVEL:** Not met	**WORK STARTED ON**	01.09.2024
				WORK COMPLETED ON	01.09.2024

SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS %					SPECIFIC GRAVITY	DEPTH (m)	OBSERVED N VALUE	CORRECTED N VALUE	**SAFE BEARING CAPACITY (t/m^2)**
				LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	GRAVEL	COARSE SAND	MEDIUM SAND	FINE SAND	CLAY & SILT					
	0.00	FS	-	-	-	-	-	-	-	-	-	-				
	1.00	GC	6.8	NP	NP	NP	14	10	28	29	19	2.41	1.50	12	12.0	10.9
	2.00	S	3.9	NP	NP	NP	10	45	38	6	1	2.44	3.00	85	50.0	56.7
	3.50	SDR (WS)	-	-	-	-	-	-	-	-	-	-	4.50	>50	50.0	56.7
	4.50															

FS – FILLED SOIL, GC – GRAVELLY CLAYEY SAND, S – SAND, SDR – SOFT DISINTEGRATED ROCK (WASHING SAMPLE)
SBC is based on SPT Result. **NP – Non Plastic, N/A – Not Applicable*

GEOGLOBE FOUNDATIONS ★ CHENNAI ★ 600 117

Ref.: GG/24-25/017

SOIL TEST RESULTS

Soil Investigation done by: GEOGLOBE FOUNDATIONS, Chennai.	**BORE HOLE NO:** 03	**LOCATION:** Mentioned on Map	**GROUND WATER LEVEL:** Not met	**WORK STARTED ON**	02.09.2024
				WORK COMPLETED ON	02.09.2024

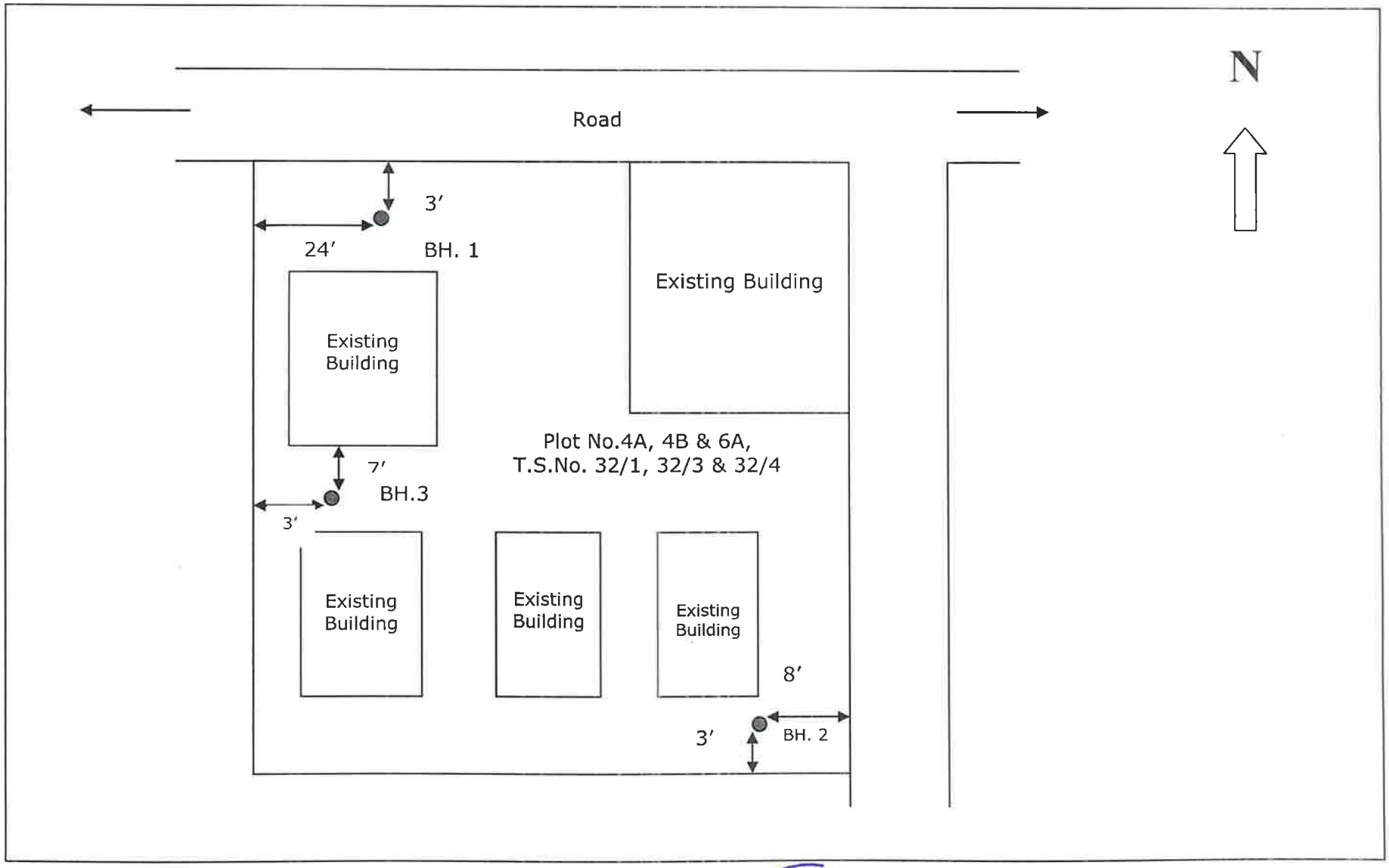
SOIL PROFILE AND DEPTH IN METRES	DEPTH OF SAMPLING	IS SOIL CLASSIFICATION	NATURAL MOISTURE CONTENT %	INDEX TEST			SIEVE ANALYSIS %					SPECIFIC GRAVITY	DEPTH (m)	OBSERVED N VALUE	CORRECTED N VALUE	**SAFE BEARING CAPACITY (t/m^2)**
				LIQUID LIMIT %	PLASTIC LIMIT %	PLASTICITY INDEX	GRAVEL	COARSE SAND	MEDIUM SAND	FINE SAND	CLAY & SILT					
	0.00	FS	-	-	-	-	-	-	-	-	-	-				
	0.50												1.00	7	7.0	4.8
		SC	10.3	NP	NP	NP	6	8	42	15	29	2.42				
	1.50												2.00	20	20.0	20.5
		GC	8.3	NP	NP	NP	18	26	16	9	31	0				
	2.50												3.00	>50	50.0	56.7
		GP	4.4	NP	NP	NP	3	64	14	18	1	2.68				
	3.50												4.50	>50	50.0	56.7
		SDR (W.S)	-	-	-	-	-	-	-	-	-	-				
	5.50												5.50	>50	50.0	56.7

FS – FILLED SOIL, SC – CLAYEY SAND, GC – GRAVELLY CLAYEY SAND, GP – POORLY GRADED GRAVEL WITH SAND, SDR – SOFT DISINTEGRATED ROCK (WASHING SAMPLE), SBC is based on SPT Result. **NP – Non Plastic, N/A – Not Applicable*

Er. S.ANAND., M.E.(GEOTECH.)
GEOTECHNICAL ENGINEER

GEOGLOBE FOUNDATIONS 600 117 CHENNAI

10. BORE HOLE LOCATION MAP – Not to scale



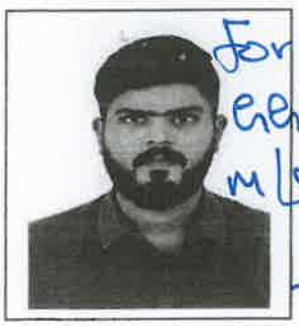
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that **Thiru S. ANAND** has enrolled as **Registered Geo-Technical Engineer (RGTE)** with Chennai Metropolitan Development Authority (CMDA) who has the qualification of **M.E.,(Geo-Technical Engg.),** and experience in the relevant field for **5 years**.

He has been given the Registration No.**GTE/2021/12/052** on **03.12.2021.** He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

This Registration is valid upto **02.12.2026**.



For Report No:
GEO/24-25/017
M/S MEGHA CONSTRUCTION
Thalavaipallery village
Chennai.

3-12-2021
T. ARIVALAGAN
SUPERINTENDENT
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
EGMORE, CHENNAI-600 008.

17/02/2025
Er.S.ANAND, M.E., M.I.G.S
(Geotechnical Engineer)
DA Reg. No: GTE/2021/12/052
46/38, Chelliamman Kovil Street,
Gandhi Nagar, Keelkattalai,
Chennai - 600 117. / Ph: 81443 08899



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